

# SELECTED CLIMATE CHANGE RESPONSE RESOURCES<sup>1</sup>

## BACKGROUND on CLIMATE CHANGE, SEA LEVEL RISE, STORMS, ADAPTATION

### RHODE ISLAND'S CLIMATE CHANGE – WAVES OF CHANGE

A comprehensive website that details the science of climate change, impacts to the environment and society, and adaptation and preparedness actions.

<http://www.riclimatchange.org/index.php>

### PLANNING FOR CLIMATE CHANGE IMPACTS IN RHODE ISLAND: PREP-RI

A series of voice-over powerpoint presentations to assist communities in planning for climate change.

<http://prep-ri.seagrant.gso.uri.edu/>

[http://www.crc.uri.edu/download/2\\_PREP-RI\\_FactSheet\\_8\\_11.pdf](http://www.crc.uri.edu/download/2_PREP-RI_FactSheet_8_11.pdf)

[http://www.crc.uri.edu/activities\\_page/resilience-tools/](http://www.crc.uri.edu/activities_page/resilience-tools/)

### CLIMATE CHANGE IN NARRAGANSETT BAY

This recent publication of the Narragansett Bay Estuary Program and the URI Coastal Institute provides four brief articles on: climate change today; rising seas and salt marshes; intensifying coastal storms; and, warming waters and oysters.

<https://www.watershedcounts.org/>

### CLIMATE CHANGE: RHODE ISLAND

State of Rhode Island portal for information on climate change and resiliency.

<http://climatechange.ri.gov/>

## SOME TOOLS FOR HOMEOWNERS, BUSINESSES, AND COMMUNITIES TO UNDERSTAND IMPACTS AND PREPARE FOR STORMS AND SEA LEVEL RISE

### STORMTOOLS

- How vulnerable is your property to future sea level rise and storm surge?
- What were flooding impacts from past storms?
- Coastal Environmental Risk Index, a modeling effort assessing the risk to structures and infrastructure from storm surge, waves and sea level rise.

<http://www.beachsamp.org/stormtools/>

[http://www.crc.uri.edu/download/5\\_StormtoolsFactSheet\\_8\\_11.pdf](http://www.crc.uri.edu/download/5_StormtoolsFactSheet_8_11.pdf)

### SLAMM (SEA LEVEL AFFECTING MARSHES MODEL)

- A tool that identifies locations throughout Rhode Island where salt marshes may migrate landward in response to sea level rise, while also identifying marshes that may be permanently inundated.

[http://www.crmc.ri.gov/maps/maps\\_slamm.html](http://www.crmc.ri.gov/maps/maps_slamm.html)

[http://www.crc.uri.edu/download/4\\_SLAMM\\_FactSheet\\_8\\_11.pdf](http://www.crc.uri.edu/download/4_SLAMM_FactSheet_8_11.pdf)

### MAPS, MAPS, MAPS

This Coastal Resources Management Council link provides a variety of useful maps including;

- STORMTOOLS and SLAMM
- Historic Shoreline Change
- Water Use Categories
- Others

<http://www.crmc.ri.gov/maps.html>

### MYCOAST: RHODE ISLAND

Free iPhone and android app and photo/data portal to post and analyze pictures and data relating to coastal events, visualize the impacts of coastal hazards, and enhance sea-level rise and storm awareness

<https://mycoast.org/ri>

<http://www.beachsamp.org/relatedprojects/fact-sheets/>

## RHODE ISLAND COASTAL PROPERTY GUIDE

Reviews vulnerability of living near the coast and addresses polices and regulations.

<http://seagrant.gso.uri.edu/wp-content/uploads/2014/04/Rhode-Island-Coastal-Property-Guide-2014.pdf>

## FOCUS ON WARREN AND BARRINGTON

### WARREN HAZARD MITIGATION PLAN (2015)

### BARRINGTON HAZARD MITIGATION PLAN (2017)

These reports focus on identifying infrastructure, residences/buildings, and vulnerable populations that are most at risk from natural hazards, such as sea level rise, storm surge, flooding, and others. Actions are identified to reduce the risks from these hazards.

[http://www.townofwarren-ri.gov/images/DRAFTED8032015Warren\\_Updated\\_Hazard\\_Mitigation\\_Plan\\_2015-FINAL\\_APPROVED.pdf](http://www.townofwarren-ri.gov/images/DRAFTED8032015Warren_Updated_Hazard_Mitigation_Plan_2015-FINAL_APPROVED.pdf)

[http://www.barrington.ri.gov/documents/planning/hazard\\_mitigation/Final\\_LocalHazardMitigationPlan\\_Barrington2017.pdf](http://www.barrington.ri.gov/documents/planning/hazard_mitigation/Final_LocalHazardMitigationPlan_Barrington2017.pdf)

### RI STATEWIDE PLANNING PROGRAM – SEA LEVEL RISE

Fact sheets, for individual towns in RI, regarding;

*“Vulnerability of Municipal Transportation Assets to Sea Level Rise and Storm Surge”*

<http://www.planning.ri.gov/planning-areas/climate-change/sea-level-rise/slr-fact-sheets.php>

and *“Socioeconomics of Sea Level Rise.”*

<http://www.planning.ri.gov/planning-areas/climate-change/sea-level-rise/socioeconomics-slr.php>

## SOME TECHNICAL DOCUMENTS

### CLIMATE SCIENCE SPECIAL REPORT -- US GLOBAL CHANGE RESEARCH PROGRAM (2017)

<https://science2017.globalchange.gov/>

### GLOBAL AND REGIONAL SEA LEVEL RISE SCENARIOS FOR THE UNITED STATES – NOAA TECHNICAL REPORT (2017)

[https://tidesandcurrents.noaa.gov/publications/techrpt83\\_Global\\_and\\_Regional\\_SLR\\_Scenarios\\_for\\_the\\_US\\_final.pdf](https://tidesandcurrents.noaa.gov/publications/techrpt83_Global_and_Regional_SLR_Scenarios_for_the_US_final.pdf)

### INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE – FIFTH ASSESSMENT REPORT (2013, 2014)

The IPCC report serves as a leading authority on climate science, impacts, and adaptation and mitigation actions.

<https://www.ipcc.ch/report/ar5/>

### STATE OF NARRAGANSETT BAY AND ITS WATERSHED – NARRAGANSETT BAY ESTUARY PROGRAM (2017)

This technical report contains chapters that focus on climate change in the Bay, including climate stressors (temperature, precipitation, and sea level rise) and responses of estuarine resources (fish communities, salt marshes, seagrasses, among others).

<http://nbep.org/the-state-of-our-watershed/technicalreport/>

<sup>1</sup>There is an enormous amount of current information related to climate change. This resource sheet is a small representation of available information with relevance to Rhode Island and the region.

